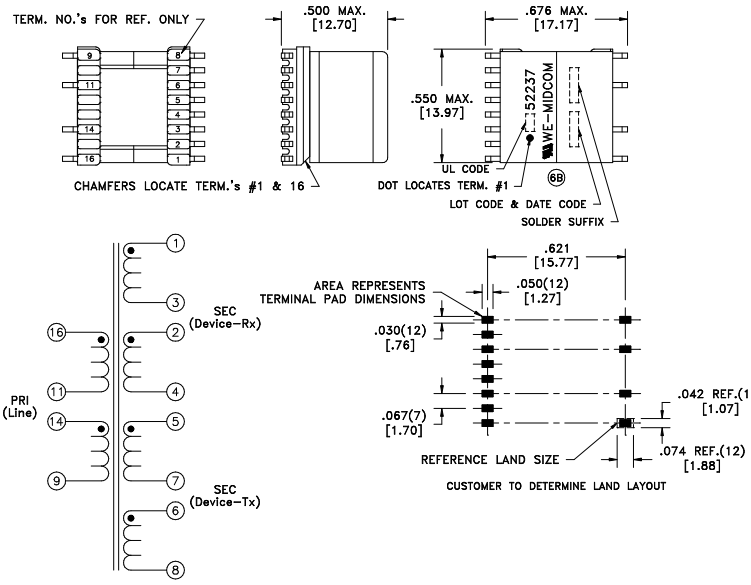
SOLDER SUFFIX	CUSTOMER TERMINAL	RoHS	LEAD(Pb)–FREE
LF1	Sn96%, Ag4%	Yes	Yes

compliant RoHS WE–MIDCOM



ELECTRICAL SPECIFICATIONS @ 25°C unless otherwise noted:

	PARAMETER		TEST CONDITIONS	VALUE
6E	D.C. RESISTANCE	16–11	@20°C	1.95 ohms ±10%
6E	D.C. RESISTANCE	14–9	@20°C	2.90 ohms ±10%
6E	D.C. RESISTANCE	1–3	@20°C	2.45 ohms ±10%
6E	D.C. RESISTANCE	2–4	@20°C	2.45 ohms ±10%
6E	D.C. RESISTANCE	5–7	@20°C	0.245 ohms ±10%
6E	D.C. RESISTANCE	6–8	@20°C	0.245 ohms ±10%
	INDUCTANCE	16–9	tie(11+14), 10kHz, 100mVAC, Ls	1.40mH ±10%
	LEAKAGE INDUCTANCE	16–9	tie(11+14, 6+7, 5+8), 100kHz, 100mVAC, Ls.	20uH max.
	LEAKAGE INDUCTANCE	16–9	tie(11+14, 2+3, 1+4), 100kHz, 100mVAC, Ls.	18 – 28uH
6E	INTERWINDING CAPACITANCE	16–5	tie(11+14, 6+7), 100kHz, 100mVAC, Cs	50pF max.
6E	INTERWINDING CAPACITANCE	16–1	tie(11+14, 2+3), 100kHz, 100mVAC, Cs	40pF max.
	DIELECTRIC	16–1	tie(11+14, 2+3), 1875VAC, 1 second	1500VAC, 1 minute
	DIELECTRIC	16–5	tie(11+14, 6+7), 1875VAC, 1 second	1500VAC, 1 minute
	TURNS RATIO		(16–9):(5–8), tie(11+14, 6+7)	4.2:1, ±2%
	TURNS RATIO		(16–9):(1–4), tie(11+14, 2+3)	1:1, ±2%
	TURNS RATIO		(16–11):(5–7)	4.2:1, ±2%
	TURNS RATIO		(16–11):(1–3)	1:1, ±2%
6E	TOTAL HARMONIC DISTORTION		30kHz, 2Vrms across PRI, 5.7 ohm load on transmit and 1k ohm load on receive, 100 ohm input, tie(11+14, 2+3, 6+7)	–90dB max.[1]
6E 6D	LONGITUDINAL CONVERSION LOSS[2]		20k – 2.2MHz	See Table in Footnotes
	INSERTION LOSS		300kHz, 5.7 ohm load	1.2dB max.

6E [1]Using Audio Precision System Two Distortion Analyzer.
[2]Per Infineon Technologies' LCL test procedure.

6D

FREQ.	LCL LIMITS					
	TERM. 1	TERM. 2–3	TERM. 4	TERM. 5	TERM. 6–7	TERM. 8
1.1MHz	>45dB	>57dB	>45dB	>45dB	>45dB	>45dB
2.2MHz	>38dB	>51dB	>38dB	>38dB	>38dB	>38dB

6D

GENERAL SPECIFICATIONS:
OPERATING TEMPERATURE RANGE: –40°C to +85°C.

Designed to comply with the following requirements as defined by IEC60950–1, EN60950–1, UL60950–1/CSA60950–1 and AŠ/NZS60950.1:
– Supplementary insulation for a primary circuit at a working voltage of 250Vrms.

6B 6D

AGENCY	NUMBER
IEC60950–1 (Via CB cert.)	US/11447/UL
JAPAN (Via CB cert.)	US/11447/UL
ACA/AUSTEL (Via CB cert.)	US/11447/UL
UL CODE FILE# E205930	AE

REV.	DATE
6E	11/09
6D	8/07
6C	5/07
6B	2/07
6A	10/06

Packaging Specifications
Method: Tape & Reel
PKG–0325
www.midcom–inc.com

Tolerances unless otherwise specified:
Angles: ±1° Decimals: ±.005 [.13]
Fractions: ±1/64 Footprint: ±.005 [.13]
This drawing is dual dimensioned. Dimensions in brackets are in millimeters.

DRAWING TITLE
TRANSFORMER
eiSos p/n: 750052237

Midcom WE
www.midcom–inc.com
REVISIONS: SEE SHEET 1

DRAWING NO.
52237R–LF1
SCALE ---
SHEET 2 OF 7